

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Spanish Trail Golf and Country Club
5050 Spanish Trail Lane
Las Vegas, Nevada 89113

Location: Spanish Trail Golf Course
5050 Spanish Trail Lane
Las Vegas, Nevada 89113 - Clark County

Latitude: 36E 05' 45"N; Longitude: 115E 15' 42"W
Section 27, T.21 South, R.60 East MDB&M

Permit Number: NEV2002512

General: The Spanish Trail Golf and Country Club Golf Course is supplied with tertiary treated, nitrified, partially denitrified, disinfected effluent for reuse irrigation by the Desert Breeze Water Resource Center (DBWRC Permit # NEV2002509) of the Clark County Sanitation District (CCSD). The reclaimed (reuse) water is used for spray irrigation of turf grasses on the 27-hole golf course's tees, greens and fairways and for drip irrigation of trees and shrubs over approximately 198 acres. The course has been retrofitted for reuse irrigation. The DBWRC reclaim (reuse) water may also be mixed with potable water supplied and managed by the Las Vegas Valley Water District in the Blending Bay at the Desert Breeze facility to provide the course with the adequate volume of water required. The relative percentages of potable and reclaimed water will vary with the seasonal irrigation demand. The 15 ponds on the course are aerated, serving as water features designed for aesthetic purposes.

Receiving Water Characteristics: Groundwater in the vicinity of the course is approximately 500 feet below ground surface with groundwater flow direction to the east-southeast. Due to the depth to groundwater, monitoring wells at the course will not be required.

Description of the Location of the Discharge: Spanish Trails Golf Course lies in an east-west orientation within the Spanish Trails development. The entire housing and golf course area is located between Durango on the west, Rainbow on the east, Hacienda on the south and Tropicana on the north in Las Vegas, Clark County, Nevada. The golf course pump station receives effluent water directly from DBWRC, and supplies irrigation water to the golf course irrigation system.

Flow: The permitted 30-day average flow is 2.40 MGD, with a maximum flow of 3.22 MGD, which is the maximum required during the hot summer months. The annual average usage is approximately 1.87 MGD per month, due to lower usage in the cooler months. Flows are measured at DBWRC after exiting the Blending Bay via a twelve inch line and magnetic flow meter. The blend of reclaimed and potable water is in the 50-50 range, but will change as more effluent is available..

Procedures for Public Comment: The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit is being sent to the **Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a 30 day period following the date of the public notice, by 01/26, 2008. the comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period, and must indicate the interest of the person filing the request and the reasons why a hearing was warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Discharge Limitations: As noted in Table I.1 below, the DBWRC provides the golf course with a high quality disinfected reuse water. The Total Coliform requirement is set at 2.2 CFU or MPN/100 ml, 30-day average. Therefore, in accordance with NAC 445A.277, the reuse water meets the Class A standard and does not require a buffer zone or control of public access.

TABLE I.1: Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Ave.	Daily Max.	Measurement Frequency	Sample Type
Flow:	2.40 MGD	3.22 MGD	Continuous	Flow meter
Total Coliform:	2.2 CFU or MPN/100 ml	23 CFU or MPN/100 ml	Weekly	Discrete
Total Nitrogen as N ⁽¹⁾	Monitor and Report mg/L		Monthly	Calculate
Total Kjeldahl Nitrogen as N	Monitor and Report mg/L		Monthly	Composite
Total Oxidized Nitrogen as N (Nitrate	Monitor and Report mg/L		Monthly	Composite

+ Nitrite)			
Ammonia as N	Monitor and Report mg/L	Monthly	Composite
Total Nitrogen lbs/ac/yr	220 lbs/ac/yr See Part I.B.4.	4 th Quarter	Calculate

(1) Total Nitrogen as N can be reported as the sum of Total Oxidized Nitrogen and Total Kjeldahl Nitrogen

CFU = Colony Forming Unit; MPN = Most Probable Number

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The quality of the effluent used by the Permittee may be reported as calculated values based upon the blend of treated effluent and Las Vegas Valley Water District (LVVWD) water.

Monitoring requirements may be satisfied by data collected by the Desert Breeze Water Resource Center and the LVVWD. Discharge Monitoring Reports are to be submitted by the Permittee. Copies of backup data or water quality calculation summaries are to be maintained at the golf course reuse site.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the Schedule of Compliance.

a.The Permittee shall achieve compliance with the discharge limitations upon issuance of the permit;

b.Any revisions to the Effluent Management Plan shall be submitted to the Compliance Coordinator on or before March 30, 2008.

c.The Permittee shall provide the Division with the documentation required in permit condition I.B.12., regarding cross-connection controls,

Rationale for Permit Requirements: Reclaimed water monitoring is required to assess the level of treatment being provided by the DBWRC, to assess the quality of blended water delivered to the course by the LVVWD, to assess the management of recycled water usage, and to protect the local groundwater quality. Total Coliform and nitrogen species are required for monitoring the quality of reclaim water being applied, and for protection of human health and the environment.

Determination: The Division has made the determination to reissue the proposed permit for a five-year (5) period.

Prepared by: Icyl C.Mulligan, ES MS
October 2007

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